TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-24-02** **Date: 27-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.
Agency	:	Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-06-17
Sample ID No	:	2017-06-24-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	–
2	Finess by Air permeablity method (m^2/kg, Min)	282.7	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	170 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Prepared by
Harshitha

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-24-02** **Date: 24-07-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.
Agency	:	Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-06-17
Sample ID No	:	2017-06-24-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-06-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-24-02** **Date: 29-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.
Agency	:	Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	24-06-17
Sample ID No	:	2017-06-24-02/02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	847	847	5.6	94.4	90-100
3	20 mm	6258	7105	47.4	52.6	30-70
4	10 mm	5898	13003	86.7	13.3	10-35
5	4.75 mm	1586	14589	97.3	2.7	0-5
6	Pan	411	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-24-02** **Date: 29-06-2017**

Sample ID No : 2017-06-24-02/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.46	_
5	Bulk Density(Compacted) (Kg/l)	1.52	_
6	Water Absorption(%)	0.21	_

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-06-24-02** **Date: 29-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.
Agency	:	Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-06-17
Sample ID No	:	2017-06-24-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-06-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	178	203	20.3	79.7	60-95	75-100	85-100	95-100
4	1.18 mm	214	417	41.7	58.3	30-70	55-90	75-100	90-100
5	600 micron	199	616	61.6	38.4	15-34	35-59	60-79	80-100
6	300 micron	201	817	81.7	18.3	5-20	8-30	12-40	15-50
7	150 micron	148	965	96.5	3.5	0-10	0-10	0-10	0-15
8	Pan	35	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-06-24-02** **Date: 29-06-17**

Sample ID No : 2017-06-24-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.97	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	3.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-06-26-03** **Date: 29-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.
Agency	:	Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010
Customer's Reference	:	BBMP/EE/BTP/WO/86/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-06-17
Sample ID No	:	2017-06-26-03/01
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	28-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.395	528	655	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.614	542	668	20.0%	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-06-02** **Date: 10-07-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.

Agency : Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/86/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-17

Sample ID No : 2017-07-06-02/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	03/07/2017	10/07/2017	148.95 X 150.66 X 150.47	22441	8.174	289.5	12.9	13.2
2	PCC	M15	03/07/2017	10/07/2017	150.23 X 150.69 X 150.33	22638	8.155	296.6	13.1	
3	PCC	M15	03/07/2017	10/07/2017	150.47 X 150.69 X 150.33	22674	8.147	306.1	13.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-06-02** **Date: 12-07-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.

Agency : Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/86/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-17

Sample ID No : 2017-07-06-02/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/07/2017	12/07/2017	150.36 X 150.47 X 150.66	22625	8.174	389.1	17.2	17.7
2	Drain Concrete	M20	05/07/2017	12/07/2017	150.44 X 150.66 X 150.45	22665	8.122	398.9	17.6	
3	Drain Concrete	M20	05/07/2017	12/07/2017	150.36 X 149.65 X 150.33	22501	8.178	414.0	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-07-06-02** **Date: 12-07-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Basappa House road, Muneshwara Layout and Beside Apoorva Apartment in ward No 10. Doddabommasandra.

Agency : Sri. N.M Shivakumar, No.07, 2nd block, Juganahalli, Rajajinagara, Bangalore-560010

Customer's Reference : BBMP/EE/BTP/WO/86/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-07-17

Sample ID No : 2017-07-06-02/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	05/07/2017	12/07/2017	149.25 X 149.66 X 150.98	22337	8.016	379.7	17.0	17.9
2	Drain Concrete	M20	05/07/2017	12/07/2017	150.22 X 150.65 X 150.66	22631	8.143	418.7	18.5	
3	Drain Concrete	M20	05/07/2017	12/07/2017	150.98 X 150.47 X 150.33	22718	8.174	415.7	18.3	

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